Docket No.: CF-55

: ELECTRONIC TRADING SYSTEM FOR SIMULATING THE

TRADING OF CARBON DIOXIDE EQUIVALENT EMISSION

REDUCTIONS AND METHODS OF USE

: Laura A. Sheridan, Reg. No. 48,446, Tel: (212) 596-9000 Agent

Sheet 1 of 37

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Filed: September 28, 2001



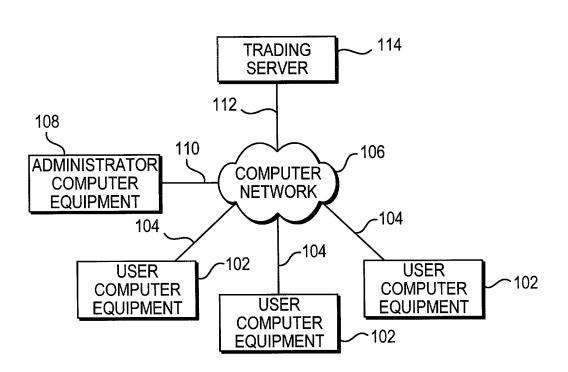


FIG. 1

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Applicants

: Carlton Bartels et al.

Docket No.: CF-55

Application No.: 09/967,272 Filed: September 28, 2001
For : ELECTRONIC TRADING SYSTEM FOR SIMULATING THE
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REDUCTIONS AND METHODS OF USE
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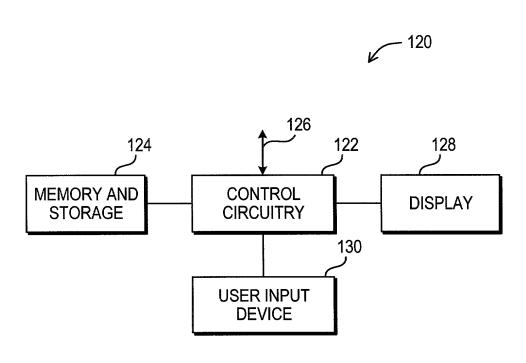


FIG. 2

ELECTRONIC TRADING SYSTEM FOR SIMULATING THE TRADING OF CARBON DIOXIDE EQUIVALENT EMISSION REDUCTIONS AND METHODS OF USE: Laura A. Sheridan, Reg. No. 48,446, Tel: (212) 596-9000 Sheet 3 of 37 Agent 3/37 **7** 248 REGISTER FOR FREE AS A CO2e.COM /ISIT OUR UK BRIEFING FOR ACCESS) PERS 图 O ALL DOCUMENTS AND ANALYSIS. END THE UK COZESM MARKETS ARE NOW OPEN. WELCOME TO CO2e,COM CO2e, COM, LLC WAS FOUNDED IN 2000 BY CANTOR FITZGERALD IN <u>**TEAD OFFICE IN NEW YORK FOR**</u> CONTACT US DIRECTLY AT OUR IMIPACT OF A GREENHOUSE GA CONSTRAINED FUTURE. SSOCIATION WITH RICEWATERHOUSECOOPERS. **UK ANNOUNCEMENT** RADING MEMBER TODAY **NORE INFORMATION AT** FOR THE UK EM SCHEME" HAS B CLICK HERE TO +1 212 938 8700 POF FILE) HOME TRADING CO2e STRATEGIES TOOLS NEWS & INSIGHTS MEMBERSHIP 230~ THE GLOBAL HUB FOR CARBON COMMERCE **BECOME A CO2e.COM MEMBER** 224 → Ø CARBON INSIGHTS **BUSINESS TOOLS** TRADING TOOLS CO2e STRATEGIES **NEWS & EVENTS** NATIONAL MARKETS CARBON TRADING COPYRIGHT @2001 CO2e.COM 242 246 244 e.COM 202 238 OSSARY 236

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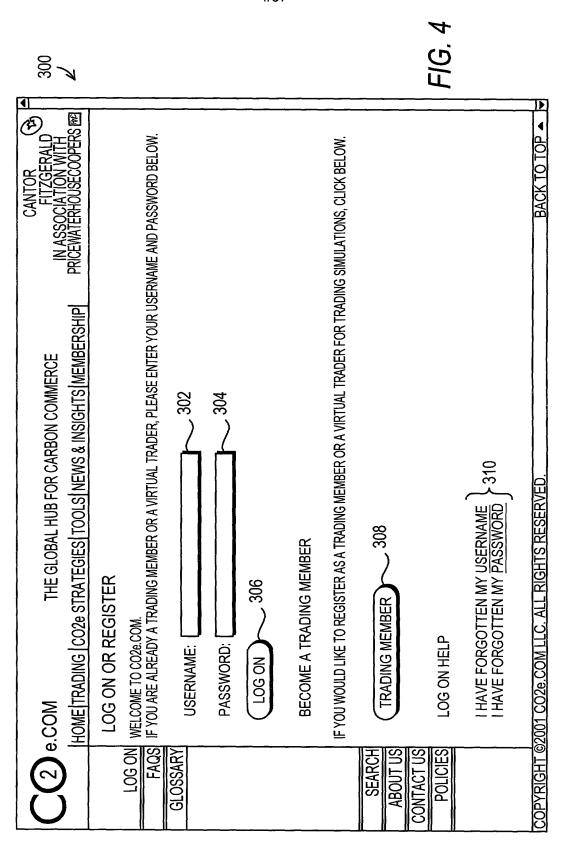
REDUCTIONS AND METHODS OF USE

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: Carlton Bartels et al.

Applicants

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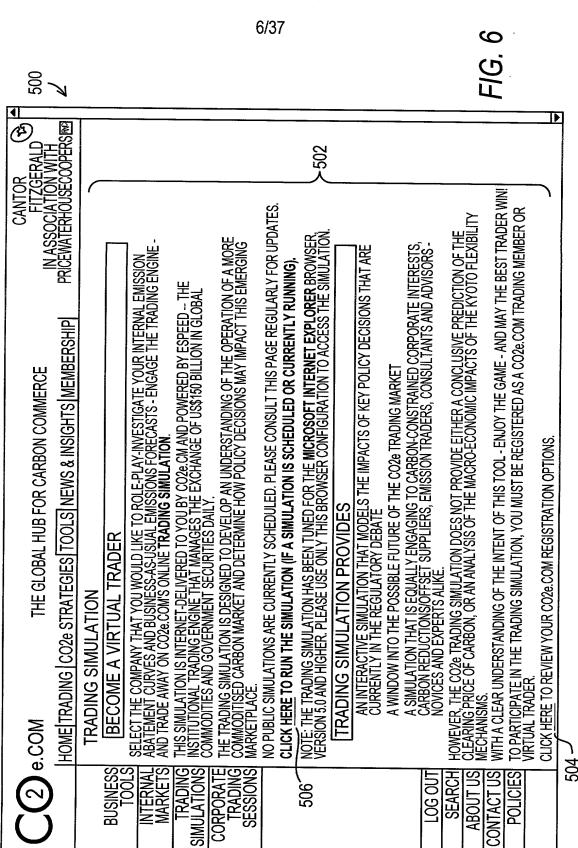
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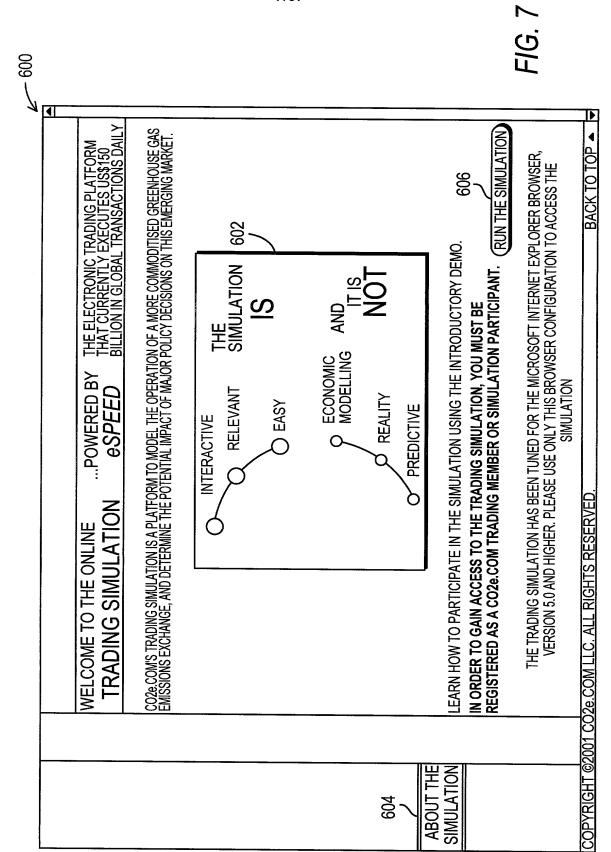
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BUYERS FACE CAPS ON THEIR CARBON DIOXIDE EQUIVALENT (CO2e) EMISSIONS AND MUST UNDERTAKE INTERNAL ACTIONS AND MAY ENGAGE IN TRADING TO COMPLY WITH EMISSIONS TARGETS AT THE LEAST COST AND AVOID COMPLIANCE PENALTIES. SUPPLIERS ARE CAPABLE OF PRODUCING JOINT IMPLEMENTATION (JI) OR CLEAN DEVELOPMENT MECHANISM (CDM) CREDITS AND ATTEMPT TO MAXIMISE PROFIT FROM THE SALE OF THESE CREDITS. TRADERS TAKE SPECULATIVE POSITIONS IN THE MARKET FOR PROFIT THROUGH THE CAREFUL ANALYSIS OF LATE-BREAKING NEWS AND THE OBSERVATION OF MARKET BEHAVIOUR. TRADERS ADD LIQUIDITY TO THE MARKET. THE SIMULATED TRADING REGIME IS ONE THAT COULD BE ESTABLISHED BY AN INTERNATIONAL INTERPRETATION OF THE
KYOTO PROTOCOL, WITH OR WITHOUT AN ADVANCED DOMESTIC TRADING ENVIRONMENT THE PARTICIPANTS ARE LOCATED IN ONE OF THREE FICTITIONS COUNTRIES. WITH AND UTOPICATED IN ONE OF THREE FICTITIONS COUNTRIES. THE SINGLE NON-ANNEX B COUNTRY, GONDWANA, IS HOME TO ROUGHLY TWO-THIRDS OF THE SUPPLIERS, WITH THE REST LOCATED IN THE CAPPED NATIONS.

BUYERS ARE ASSIGNED EMISSIONS ALLOWANCES (EAs) AFTER A DEFINED "ANNOUNCEMENT YEAR" FOR USE DURING THE COMMITMENT PERIOD. EAS ARE TRADEABLE. INTERNAL REDUCTIONS (IRS) ARE CREATED BY BUYERS UNDERTAKING EMISSION OR SEQUESTRATION PROJECTS INTERNALLY; THESE REDUCTIONS ARE NOT TRADEABLE. FOUR DIFFERENT TYPES OF ENTITIES PARTICIPATE IN THE SIMULATION, EACH WITH DIFFERENT CHARACTERISTICS AND GOALS. SUPPLIERS CREATE CDM OR JI CREDITS, DEPENDING ON THE JURISDICTIONS IN WHICH THEY ARE LOCATED. CREDITS ARI DISTINGUISHED BY VINTAGE (YEAR) AND WHILE CREDITS MAY BE BANKED FOR FUTURE USE (DEPENDING ON THE PARTICU "RULES" OF EACH CREDIT TYPE), THEY MAY NOT BE BORROWED FOR PRIOR YEAR COMPLIANCE. NGOS SEEK TO ACHIEVE THE GREATEST ENVIRONMENTAL "GOOD" AT THE LEAST ECONOMIC COST BY PURCHASING AND HOLDING ON TO CREDITS FOR ULTIMATE RETIREMENT WITH LIMITED ECONOMIC RESOURCES. ALL CREDIT TYPES ARE FULLY DEFINED AND TRANSFERABLE ACROSS INTERNATIONAL BOUNDARIES OF THE KEY ELEMENTS OF EMERGING POLICY WITH SOPHISTICATED TRADING MIGHT DEVELOP. THE SIMU GROWING B2B ELECTRONIC SOLUTION PROVIDER, eSPEED INC., TO CREATE A HIGHLY USABLE, ENJOYABL SIMULATION. IS IMPORTANT TO RECOGNIZE THESE ASSUMPTIONS BEFORE ENGAGING THE SIMULATION SEVERAL KEY ASSUMPTION HAVE BEEN MAKE IN THE DESIGN OF CO26.COM'S TRADING SIMULATION PARTICIPANTS IN NON-ANNEX B COUNTRIES CAN SELL AND BUY CREDITS SIMULATION ELEMENTS ABOUT THE SIMULATION BROAD ASSUMPTIONS ABOUT:

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Applicants : Carlton Bartels et al. Docket No.: CF-55 Application No.: 09/967,272 Filed: September 28, 2001 ELECTRONIC TRADING SYSTEM FOR SIMULATING THE TRADING OF CARBON DIOXIDE EQUIVALENT EMISSION REDUCTIONS AND METHODS OF USE Agent : Laura A. Sheridan, Reg. No. 48,446, Tel: (212) 596-9000 Sheet 9 of 37 9/37 PLEASE MAKE A SELECTION OF THE ORGANISATION THAT YOU WISH TO "ROLE-PLAY" DURING THE COURSE OF I- SELECT ONE ORGANISATION FROM THE LIST OF USER TYPES (BUYER, SUPPLIER, TRADER, OR NGO), BELOW 4- CHOOSE THE APPROPRIATE ORGANISATION BY CLICKING 'SELECT' ON THE 'SELECT ORGANISATIONS' PAGE NOTE: THE SYSTEM WILL AUTOMATICALLY ENSURE THAT THERE IS A RELATIVE BALANCE BETWEEN THE PARTICIPANT TYPES (BUYER, SUPPLIER, TRADER, AND NGO). IF YOU RECEIVE AN ERROR MESSAGE ON SELECTION OF A PARTICULAR PARTICIPANT TYPE, PLEASE SELECT FROM ONE OF THE REMAINING THREE. 812 5- SELECT TO EITHER KEEP THE DEFAULT NAME OF THE ORGANISATION, OR CREATE YOUR OWN NAME 3- CONTINUE THIS PROCESS UNTIL YOU ARE COMFORTABLE WITH THE ORGANISATION SELECTED 814 FOR A MORE DETAILED DEFINITION OF THE PARTICIPANT TYPES, SEE THE SIMULATION DEMO> **NEW ORGANISATION NAME** 2- REVIEW THE DETAILS OF THAT ORGANISATION BY SELECTING THE 'VIEW' OPTION LAURA'S CEMENT THIS SIMULATION BY FOLLOWING THESE SIMPLE STEPS. 806 810 808 NON-GOVERNMENT ORGANISATIONS SELECT A SUPPLIER ORGANISATION SELECT A TRADER ORGANISATION SELECT AN NGO ORGANISATION SELECT ORGANISATION SUPPLIER ORGANISATIONS RADER ORGANISATIONS **BUYER ORGANISATIONS** COMPLIANCE TESTER - 3 **US DEMO** 836 POSITION TRADE PORTING **DEMO** ORGANISATION SIMULATION ORIGINAT ABOUT

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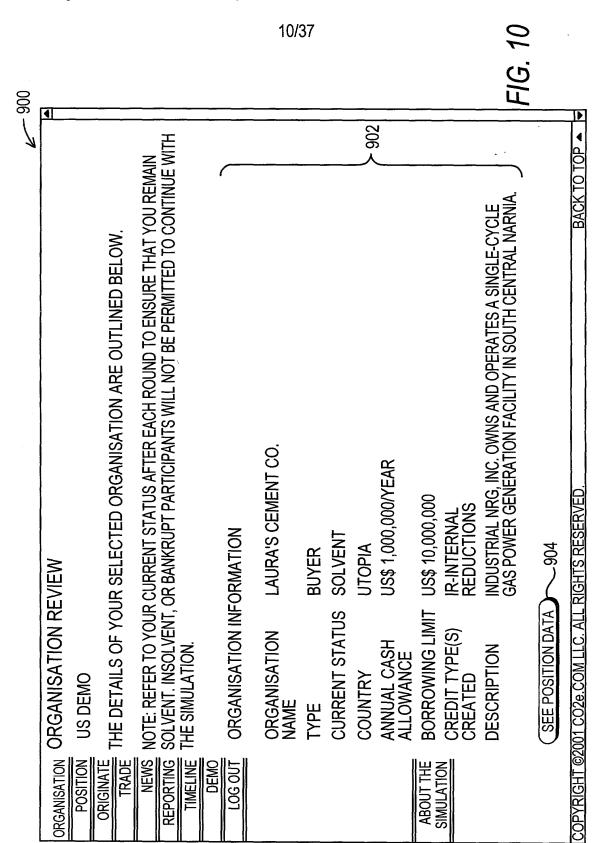
Docket No.: CF-55 : Carlton Bartels et al. Applicants Filed: September 28, 2001 09/967,272

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	11/37		
POSITION REVIEW US DEMO HISTORIC AND REAL-TIME POSITIONS FOR YOUR A POSITION BY SELECTING THE GRAPH OPTION (BUTTON OF THIS PAGE FREQUENTLY DURING THIS POSITION DATA. REFRESH THIS PAGE PERIODICAL FOR A DETAILED DEFINITION OF THE POSITIONS I SEE ORGANIZATION DATA.	EMISSIONS AND REDUCTION	CREDITS EAS (LOW-END EXPECTED ALLOCATION EAS (HIGH-END EXPECTED ALLOCATION TOTAL	1016 COMPLIANCE CALCULATOR PRE-CP AGGREGATION 2003 2004 2005 2006 2007 2008 2010 2011 2012 CP TOTALS 1,000,000 500,0
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Applicants Application No.: 09/967,272

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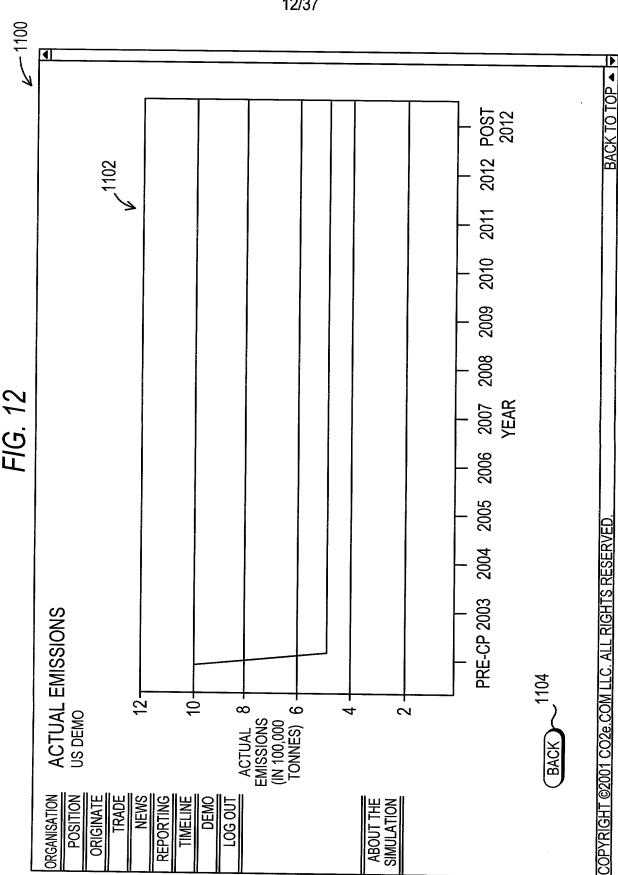
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CLICK 'CALCULATE' TO DETERMINE THE TOTAL COST FOR THIS ORIGINATION (TOTAL COST IS A FUNCTION OF YOUR ORIGANISATION'S MARGINAL ABATEMENT/SUPPLY COST CURVE) INPUT THE TOTAL AMOUNT OF TONNES THAT YOU WOULD LIKE TO PRODUCE OVER THE 10-YEAR LIFESPAN OF YOUR PROJECT IN THE 'TOTAL VOLUME' FIELD BELOW

CLICK 'ACCEPT' (ONLY ONCE) IF YOU WISH TO ORIGINATE THE CREDITS OR IRS, OR 'CANCEL' TO RESET THE ORIGINATION UTILITY

THE ORIGINATION UTILITY IS PROVIDED TO ALLOW PARTICIPANTS TO GENERATE CREDITS (FOR SUPPLIERS) OR INTERNAL REDUCTIONS (IRs) (FOR BUYERS).

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O ORIGINATE CREDITS OR IRS, PLEASE TAKE THE FOLLOWING SIMPLE STEPS

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ABOUT THE

SIMULATION

YEARS (IN BLOCKS OF 100,000) US\$ 100,000.00

TOTAL COST

CANCEL

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FOR A MORE DETAILED DEFINITION OF THE ORIGINATION PROCESS, SEE THE ORIGINATION DESCRIPTION>

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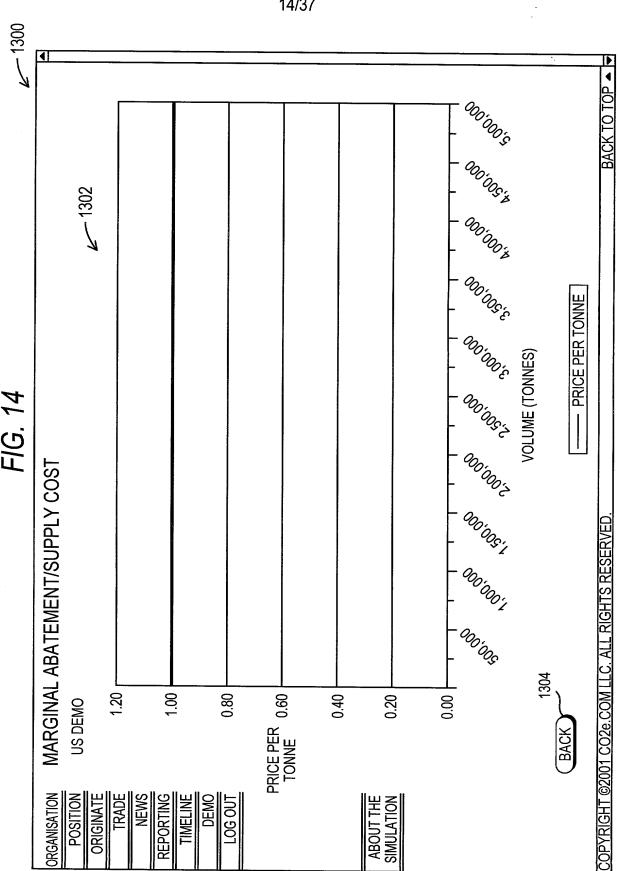
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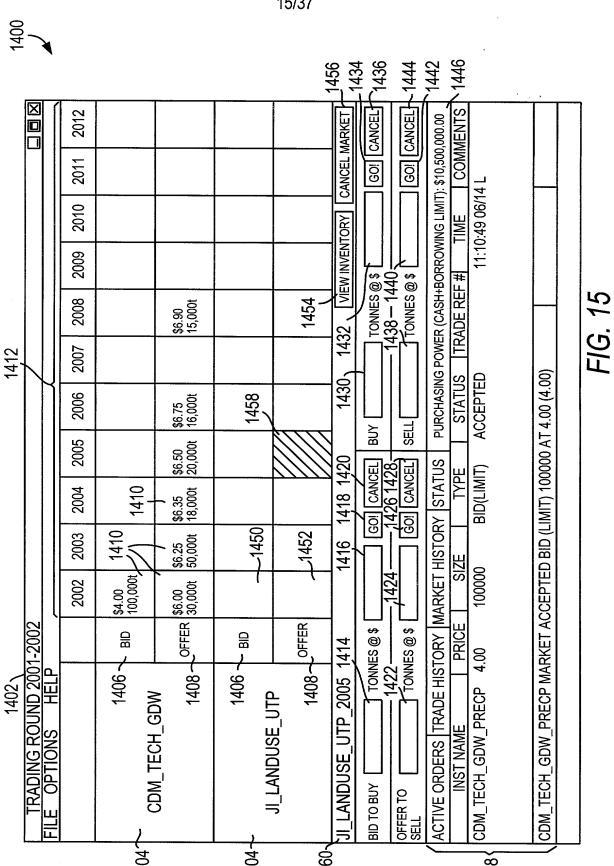
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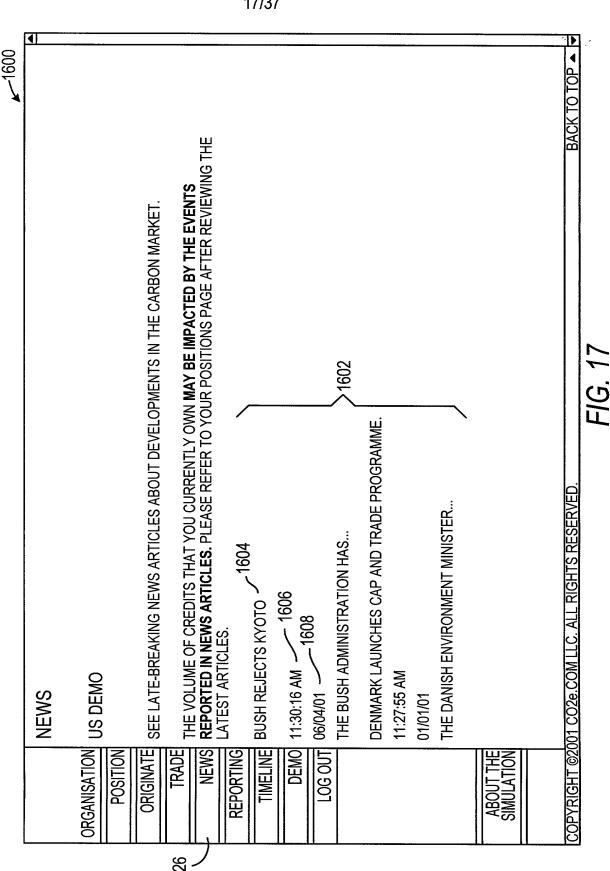
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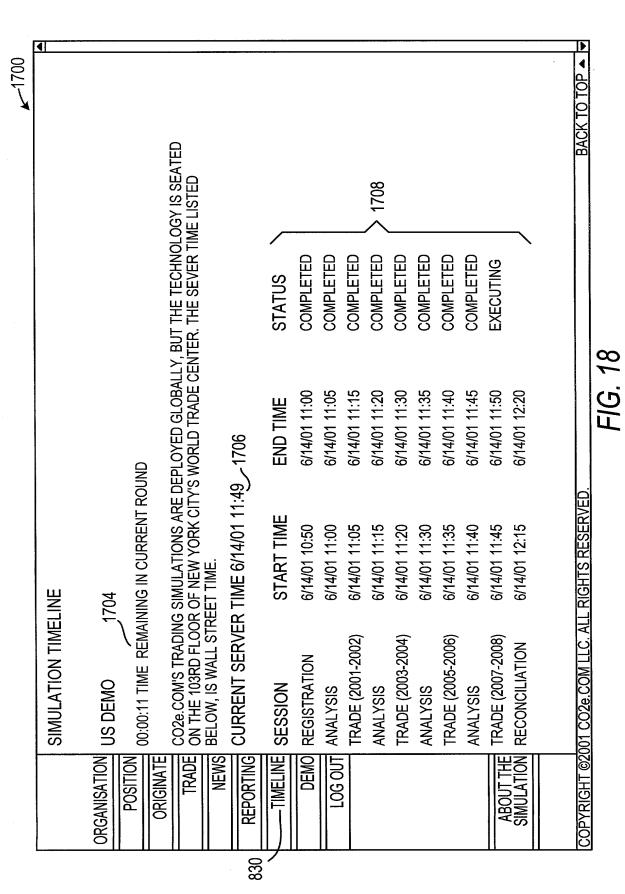
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: Laura A. Sheridan, Reg. No. 48,446, Tel: (212) 596-9000 Sheet 19 of 37 Agent 19/37 248 INTERNAL MARKETS PROVIDES THE TECHNOLOGY BEHIND YOUR INTERNAL CARBON TRADING PROGRAMS. ASK US ABOUT WHY CO2e.COM'S INTERNAL MARKETS IS RIGHT FOR YOUR BUSINESS HERE. ASK US MORE ABOUT CO2e.COM'S TRADING
SIMULATIONS HERE.
CO2e.COM CAN CUSTOM-DELIVER CORPORATE TRADING
SESSIONS FOR YOUR ENTERPRISE. ASK US ABOUT YOUR CO2e.COM OFFERS A FULL RANGE OF TRADING TOOLS FOR YOUR INVESTIGATION. YOU HAVE SUCCESSFULLY COMPLETED CO2e.COM'S TRADING SIMULATION OPTIONS HERE. YOU DID NOT WIN ANY CATERGORIES ► CORPORATE TRADING SESSIONS ADDITIONAL OPPORTUNITIES **▶**TRADING SIMULATIONS **▶INTERNAL MARKETS** SIMULATION REPORT CONGRATULATIONS CATEGORY REPORT TRADE POSITION NEWS ORGANISATION ORIGINATE DEMO TIMELINE **REPORTIN**(ABOUT: SIMULAT days the great the will have the table

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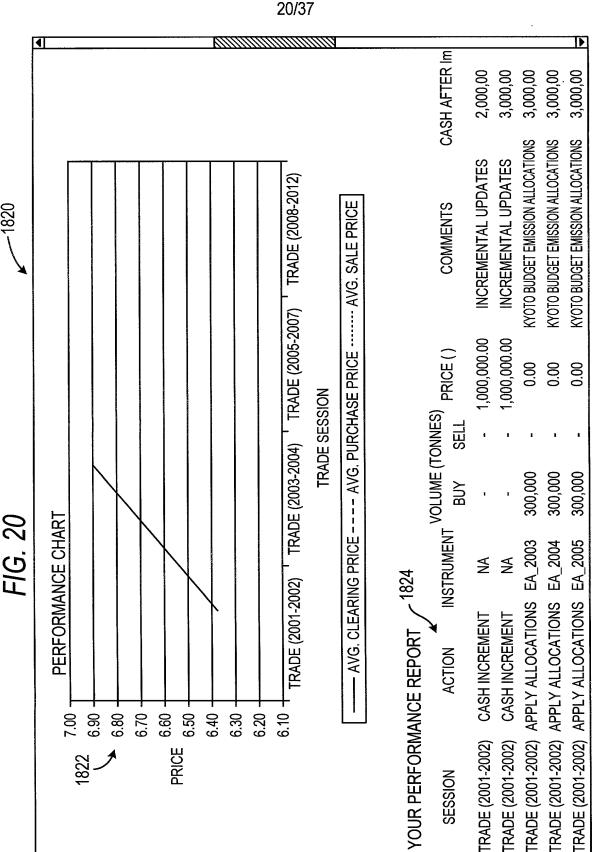
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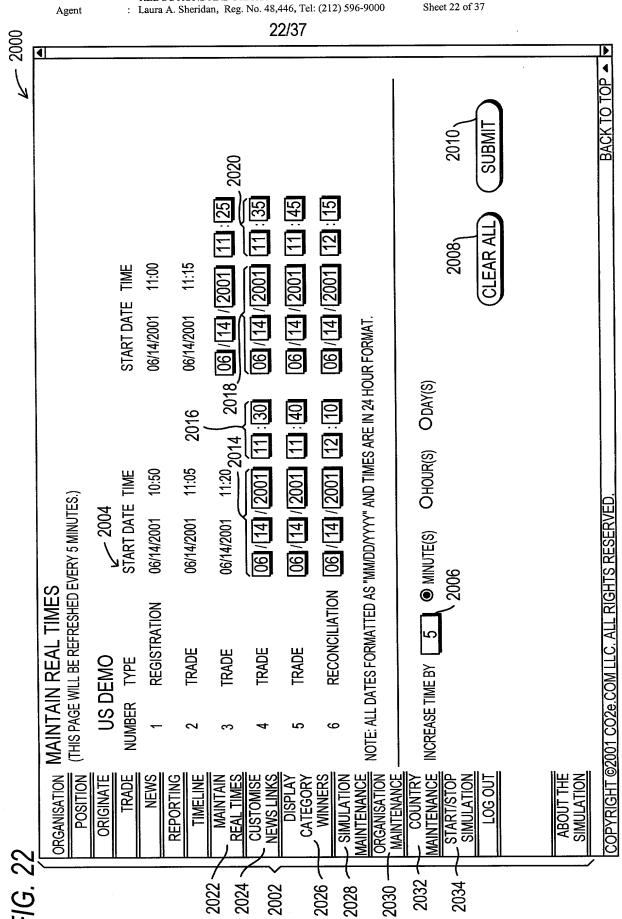
THE CO2e, COM TRADING SIMULATION IS A PLATFORM TO LEARN ABOUT THE OPERATION OF A MORE COMMODITISED CARBON MARKET, AND THE POTENTIAL IMPLICATIONS OF MAJOR POLICY DECISIONS ON THIS EMERGING MARKETPLACE. IT REPRESENTS A SIMPLIFIED MODEL OF HOW INTERNATIONAL OR DOMESTIC CARBON TRADING MIGHT DEVELOP. THE SIMULATION COMBINES MANY OF THE KEY ELEMENTS OF EMERGING POLICY WITH SOPHISTICATED TRADING TECHNOLOGY FROM ONE OF WALL STREET'S FASTEST GROWING B2B ELECTRONIC SOLUTIONS PROVIDER, eSPEED, INC., TO CREATE A HIGHLY USABLE, ENJOYABLE AND INSTRUCTIVE SIMULATION. BUYERS FACE CAPS ON THEIR CARBON DIOXIDE EQUIVALENT (CO2e) EMISSIONS AND MUST UNDERTAKE INTERNAL ACTIONS AND MAY ENGAGE IN TRADING TO COMPLY WITH EMISSIONS TARGETS AT THE LEAST COST AND AVOID COMPLIANCE PENALTIES. NGOS SEEK TO ACHIEVE THE GREATEST ENVIRONMENTAL "GOOD" AT THE LEAST ECONOMIC COST BY PURCHASING AND HOLDING ON TO CREDITS FOR ULTIMATE RETIREMENT WITH LIMITED ECONOMIC RESOURCES. THE TRADING SIMULATION IS ONE OF A SERIES OF INTERACTIVE TRADING TOOLS THAT HAS BEEN BROUGHT TO MARKET BY CO2e.COM TRADERS TAKE SPECULATIVE POSITIONS IN THE MARKET FOR PROFIT THROUGH THE CAREFUL ANALYSIS OF LATE-BREAKING NEWS AND THE OBSERVATION OF MARKET BEHAVIOUR. TRADERS ADD LIQUIDITY TO THE MARKET. SUPPLIERS ARE CAPABLE OF PRODUCING JOINT IMPLEMENTATION (JI) OR CLEAN DEVELOPMENT MECHANISM (CDM) CREDITS AND ATTEMPT TO MAXIMIZE PROFIT FROM THE SALE OF THESE CREDITS. SEVERAL KEY ASSUMPTIONS HAVE BEEN MADE IN THE DESIGN OF CO2e.COM'S TRADING SIMULATION. THESE ASSUMPTIONS ARE AS FOLLOWS: THE SIMULATED TRADING REGIME IS ONE THAT COULD BE ESTABLISHED BY AN INTERNATIONAL INTERPRETATION OF THE KYOTO PROTOCOL, WITH OR WITHOUT AN ADVANCED DOMESTIC TRADING ENVIRONMENT FOUR DIFFERENT TYPES OF ENTITIES PARTICIPATE IN THE SIMULATION, EACH WITH DIFFERENT CHARACTERISTICS AND GOALS: PANTS ARE LOCATED IN ONE OF THREE FICTITIOUS COUNTRIES. NARNIA AND UTOPIA ARE BOTH ANNEX B (CAPPEF BUYERS AND TRADERS ARE EXCLUSIVELY LOCATED IN THESE COUNTRIES. THE SINGLE NON-ANNEX B COUNTRY IS HOME TO ROUGHLY TWO-THIRDS OF THE SUPPLIERS, WITH THE REST LOCATED IN THE CAPPED NATIONS. ALL CREDIT TYPES ARE FULLY DEFINED AND TRANSFERABLE ACROSS INTERNATIONAL BOUNDARIES IT IS IMPORTANT TO RECOGNIZE THESE ASSUMPTIONS BEFORE ENGAGING THE SIMULATION PARTICIPANTS IN NON-ANNEX B COUNTRIES CAN SELL AND BUY CREDITS ABOUT THE SIMULATION SIMULATION ELEMENTS BROAD ASSUMPTIONS THE PARTICIPANTS NATIONS. THE BUY GONDWANA, IS HO NEWS SIMULATION **DEMO** ORGANISATION REPORTING **POSITION** IIMELINE LOG 901 TRADE ORIGINAT **ABOUT**

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REDUCTIONS AND METHODS OF USE

: Laura A. Sheridan, Reg. No. 48,446, Tel: (212) 596-9000



: Carlton Bartels et al. Applicants

Filed: September 28, 2001

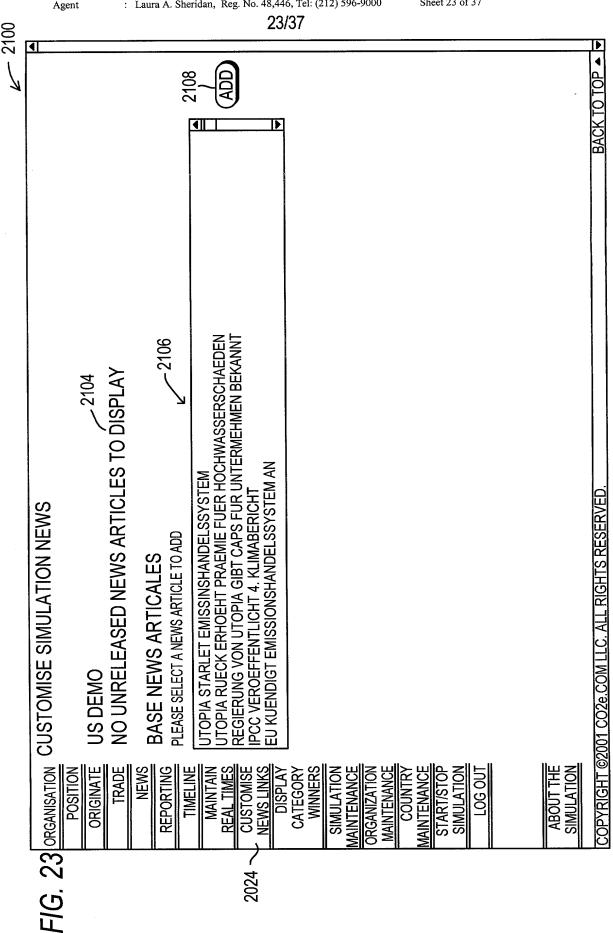
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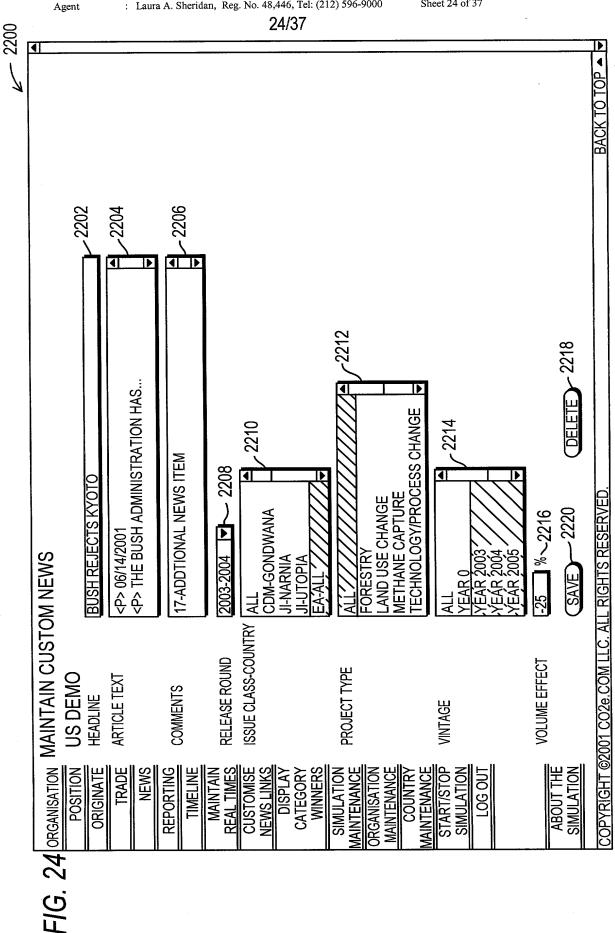
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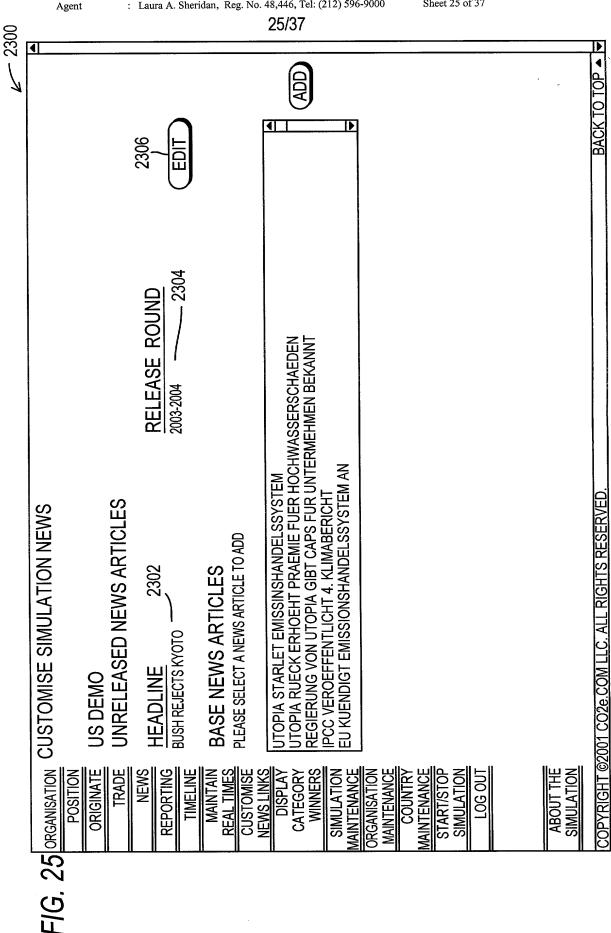
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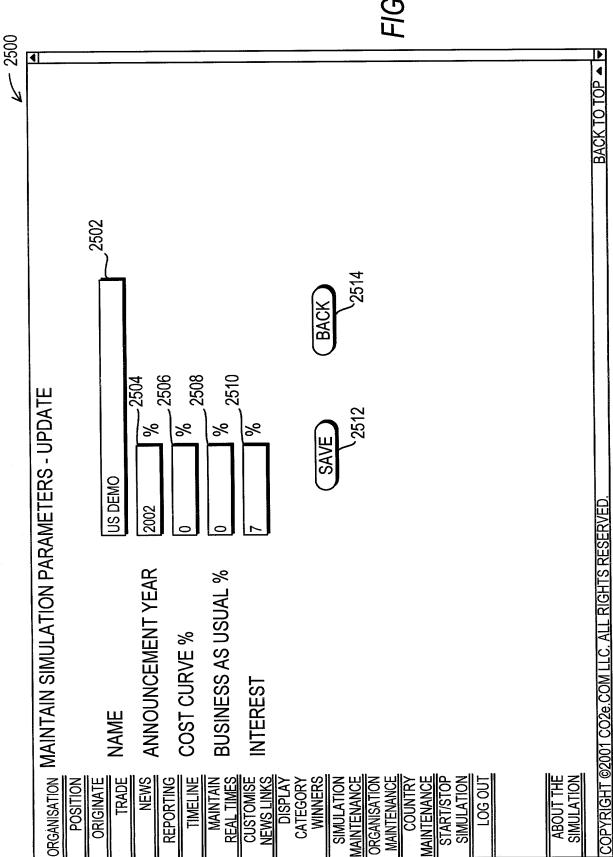
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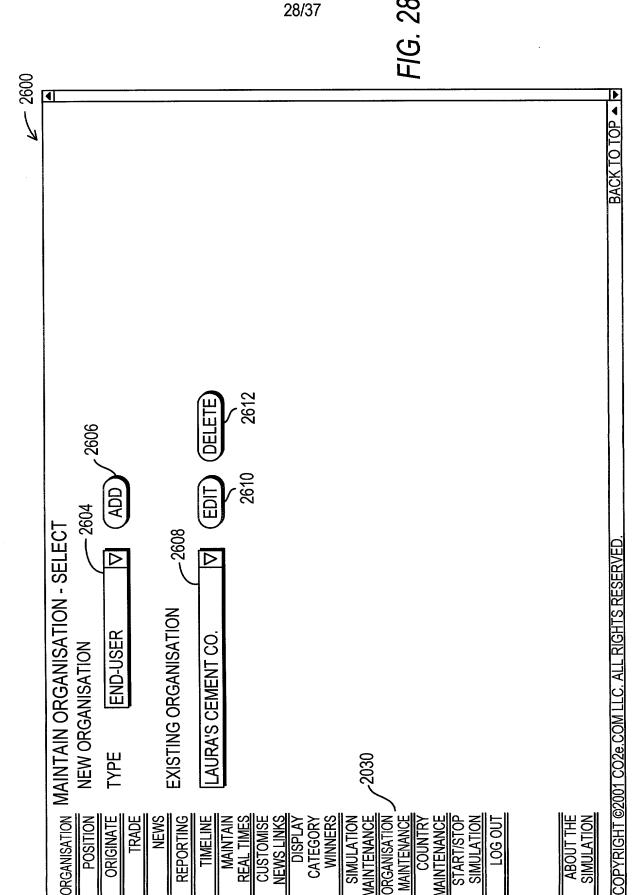
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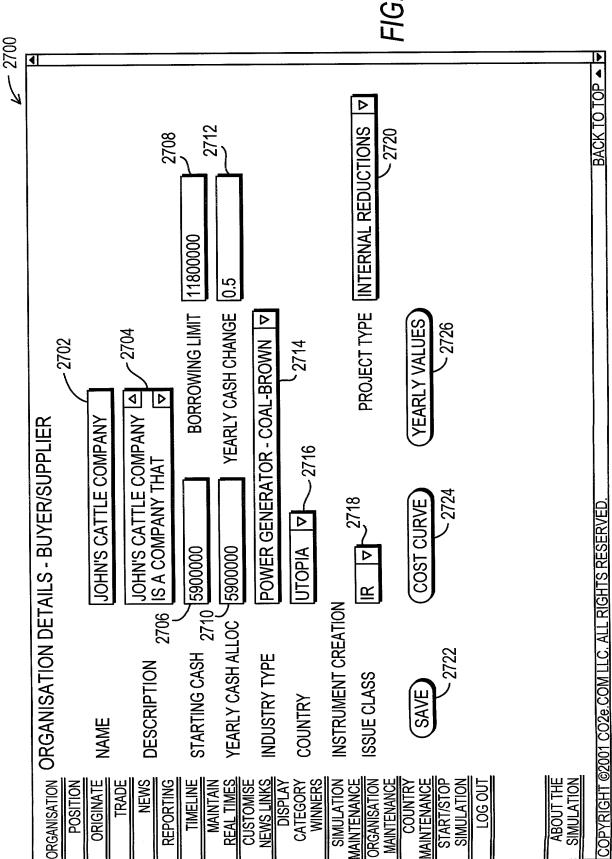
Applicants : Carlton Bartels et al.
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30/37 248 COST PER TONNE 2810 2802 MAINTAIN ORGANISATION COST CURVE -2806 120000 130000 140000 1500000 1700000 900006 000000 10000 00000 10000 DEFAULT COST CURVE 2804 VOLUME FROM 100000 1200000 1300000 1400000 600000 700000 800000 000006 2200000 00000 200000 2100000 000006 DISPLAY CATEGORY WINNERS REAL TIMES CUSTOMISE ORGANISATION MAINTENANCE COUNTRY ORIGINATE TRADE NEWS TIMELINE REPORTING NEWS LINKS LOG OUT **DRGANISATION** SIMULATION START/STOP POSITION MAINTAIN AINTENANCE SIMULATION MINTENANCE

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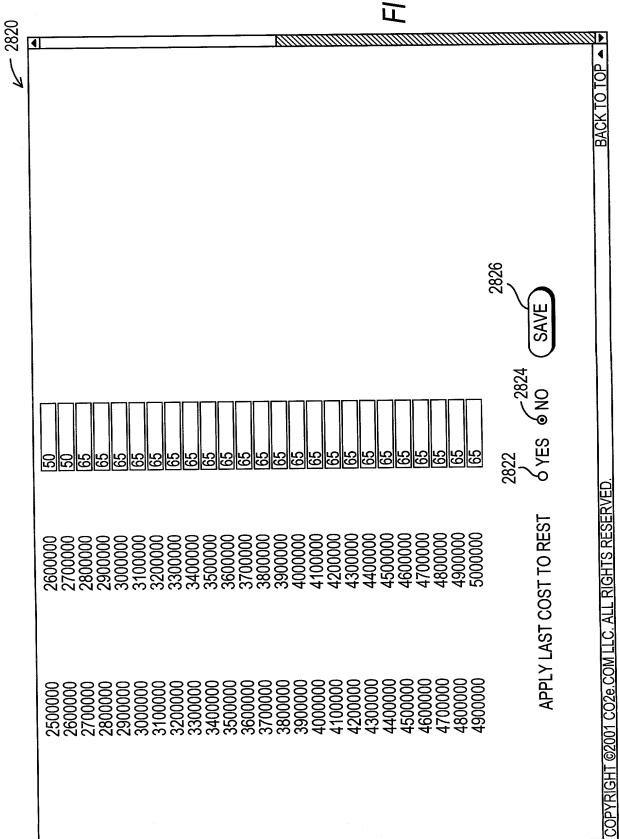
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32/37 248 2900 ~ 2918 2916 FORECAST HIGH <u>3000</u> 2914 KYOTO ALLOCATION FORECAST LOW 2902 -2910MAINTAIN ORGANISATION YEARLY VALUES 2908 31500 19000 9500 744500 2906 **DEFAULT YEARLY VALUES** BAU YEAR 64460
6 SIMULATION
MAINTENANCE
ORGANISATION
MAINTENANCE
COUNTRY
MAINTENANCE
START/STOP ABOUT THE SIMULATION TIMELINE MAINTAIN REAL TIMES CUSTOMISE NEWS LINKS DISPLAY CATEGORY WINNERS LOG OUT NEWS REPORTING ORIGINATE TRADE ORGANISATION POSITION

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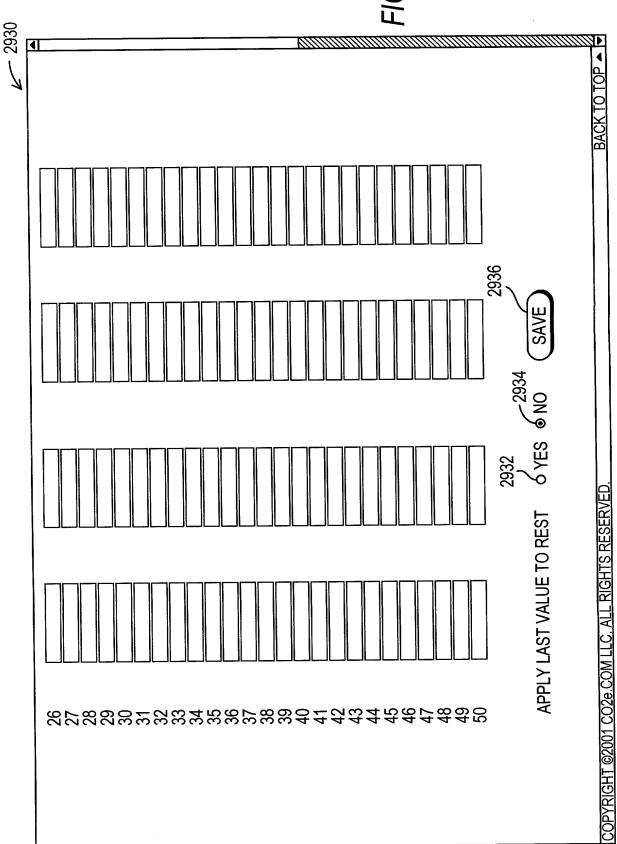
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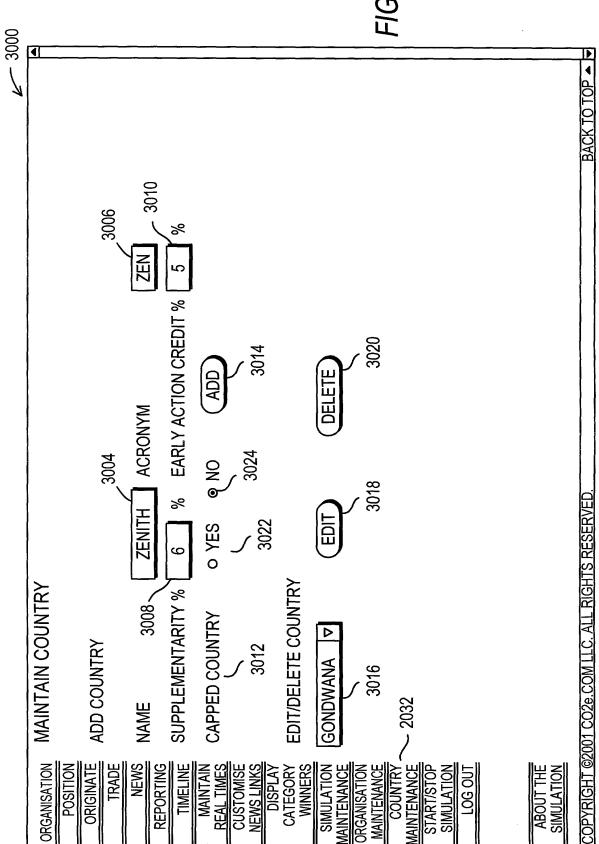


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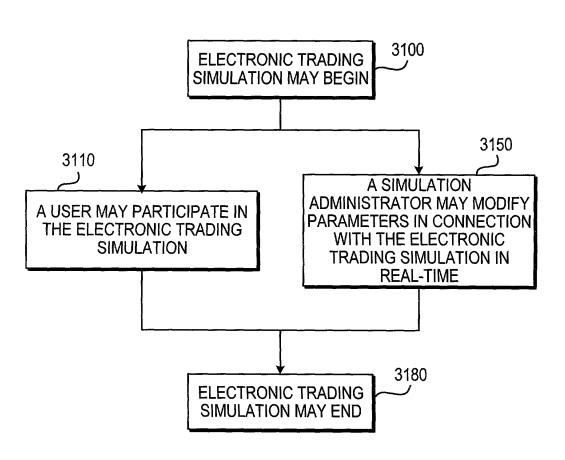


FIG. 35

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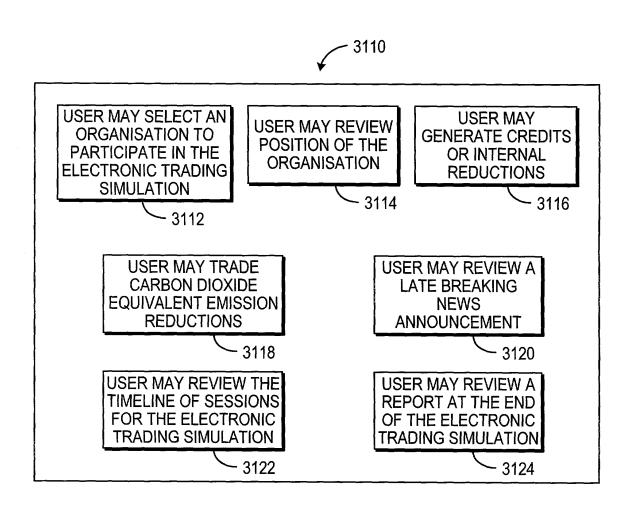


FIG. 36

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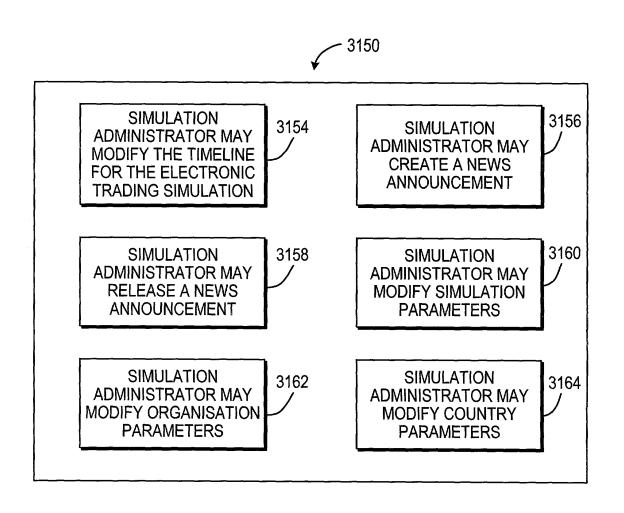


FIG. 37